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### ABSTRACT

Methods, apparatus, and business processes enabling individual chemists to design, order, and obtain data for multiple experiments or measurements in a timely and cost-effective manner.

In particular implementations, the invention includes methods and apparatus for designing sets of custom experiments, ordering the execution of the experiments, communicating the order to a

10 remote laboratory, executing the experiments at that laboratory using high-throughput technologies, and communicating the experimental results to the user.